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| APPLICATION NO.      | F                  | ILING DATE  | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|----------------------|--------------------|-------------|----------------------|---------------------|------------------|--|
| 10/674,786           | 574,786 10/01/2003 |             | Saburo Yokota        | 1349.1303           | 3675             |  |
| 21171                | 7590               | 11/03/2005  |                      | EXAMINER            |                  |  |
| STAAS &<br>SUITE 700 |                    | LLP         | CHAPMAN, MARK A      |                     |                  |  |
|                      |                    | VENUE, N.W. | ART UNIT             | PAPER NUMBER        |                  |  |
| WASHING              |                    | <u>-</u>    | 1756                 |                     |                  |  |

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Application No.                                                                                                                                                   | Applicant(s)                                                       |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10/674,786                                                                                                                                                        | YOKOTA ET AL.                                                      |          |
| Office Action Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Examiner                                                                                                                                                          | Art Unit                                                           |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mark A. Chapman                                                                                                                                                   | 1756                                                               |          |
| The MAILING DATE of this communication app Period for Reply                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ears on the cover sheet with the c                                                                                                                                | correspondence address                                             | ;        |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this commun D (35 U.S.C. § 133). |          |
| Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                   |                                                                    |          |
| 1) Responsive to communication(s) filed on 15 Au                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | action is non-final.  Ice except for formal matters, pro                                                                                                          |                                                                    | its is   |
| Disposition of Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •                                                                                                                                                                 |                                                                    |          |
| 4) Claim(s) 1-17 is/are pending in the application.  4a) Of the above claim(s) 14-17 is/are withdraw  5) Claim(s) is/are allowed.  6) Claim(s) 1-13 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or  Application Papers  9) The specification is objected to by the Examiner  10) The drawing(s) filed on 01 October 2003 is/are:  Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction.                          | n from consideration.  election requirement.  a) ⊠ accepted or b) □ objected drawing(s) be held in abeyance. See                                                  | e 37 CFR 1.85(a).                                                  | 121(d).  |
| 11) The oath or declaration is objected to by the Exa                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | aminer. Note the attached Office                                                                                                                                  | Action or form PTO-15                                              | i2.      |
| Priority under 35 U.S.C. § 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                   | •                                                                  |          |
| <ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priori application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>                                                                                                                                       | s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).                                                    | on No ed in this National Stage                                    | <b>e</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ·                                                                                                                                                                 |                                                                    |          |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 6 pages.                                                                                                                                                                                                                                                                                                        | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:                                                                                        | •                                                                  |          |

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Applicant's election of Group I, claims 1-13, in the reply filed on 8-15-05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 14-17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 8-15-05.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set. forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsui (6,331,371) in view of Itoh (5,031,623) and Takesue (5,721,082). Matsui teaches a multi-layered electrophotographic organic photoconductor that contains a conductive substrate, charge transport layer, and charge generating layer. Matsui teaches that the charge transport contains a stilbene and is applied by using tetrahydrofuran as a solvent (col. 8 line 54 col. 9 line 21). Mastui also teaches that the charge generating layer is applied by using a combination of an alcohol and an acetate solvent (col. 8 lines 42-49). Matsui does not teach the specific charge transport and

charge generating materials. Itoh (col. 24) teaches the specific stilbene charge transport materials applied with tetrahydrofuran solvent and Takesue (col. 17) teaches the specific amine charge generating material in similar multi-layered electrophotographic organic photoconductor applications. It would have been obvious to one of ordinary skill in the art to substitute well known charge generating and transport materials taught by each of Itoh and Takesue in the multi-layered electrophotographic organic photoconductor taught by Matsui because of the well known effects of such materials with the expectation of similar results used for the same intended purposes to arrive at the multi-layered electrophotographic organic photoconductor produced by known solvents.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark A. Chapman whose telephone number is 571-272-1381. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark A. Chapman Primary Examiner

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